## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1	1. (Currently amended) A method for providing concurrency control for a
2	policy-based management system that controls resources in a distributed
3	computing system, the method comprising:
4	receiving a request to perform an operation on a lockable resource from a
5	controller in the distributed computing system, wherein the lockable resource is a
6	device, an appliance, a system, or a storage mechanism controller is associated
7	with a policy;
8	wherein the controller sends the request in order to enforce a first policy
9	for controlling resources in the distributed computing system;
10	determining whether the controller holds a lock on the lockable resource,
11	wherein the lock can be controlled by different controllers, and wherein only one
12	controller can hold a lock on a resource at a given time;
13	allowing the controller to execute the operation on the lockable resource if
14	the controller holds the lock on the lockable resource;
15	allowing the controller to acquire the lock if the controller does not hold
16	the lock on the lockable resource; and
17	allowing the controller to execute the operation on the lockable resource if
18	the controller acquires the lock;
19	wherein the controller can hold locks on other policies and can thereby
20	create a hierarchical locking structure between policies.

- 2. (Original) The method of claim 1, wherein the first policy is configured to command resources in the distributed computing system to perform actions so that the distributed computing system operates in accordance with a rule that is enforced by the first policy, wherein the rule governs behavior of resources within the distributed computing system.
- 3. (Original) The method of claim 1, further comprising throwing an exception if the controller does not hold the lock on the lockable resource and if the controller does not acquire the lock.
- 4. (Original) The method of claim 1, wherein the lock held on the lockable resource expires after a pre-specified lease period, unless the lease is renewed within the pre-specified lease period.
- 5. (Original) The method of claim 1, wherein the lockable resource includes a resource within the distributed computing system.
- 6. (Original) The method of claim 1, wherein the lockable resource includes a second policy for controlling resources in the distributed computing system.
- 7. (Original) The method of claim 1, wherein the controller includes a client in the distributed computing system.
- 8. (Original) The method of claim 1, wherein the controller includes the first policy for controlling resources in the distributed computing system.

1	9. (Original) The method of claim 1, wherein the controller includes a
2	higher-level policy for controlling resources in the distributed computing system,
3	and wherein the lockable resource includes a lower-level policy for controlling
4	resources in the distributed computing system.
1	10. (Original) The method of claim 1, wherein allowing the controller to
2	acquire the lock includes allowing the controller to acquire the lock from a
3	resource that allocates locks to controllers.
1	11 (Canceled).
1	12. (Currently amended) A computer-readable storage medium storing
2	instructions that when executed by a computer cause the computer to perform a
3	method for providing concurrency control for a policy-based management system
4	that controls resources in a distributed computing system, the method comprising:
5	receiving a request to perform an operation on a lockable resource from a
6	controller in the distributed computing system, wherein the lockable resource is a
7	device, an appliance, a system, or a storage mechanism controller is associated
8	with a policy;
9	wherein the controller sends the request in order to enforce a first policy
10	for controlling resources in the distributed computing system;
11	determining whether the controller holds a lock on the lockable resource,
12	wherein the lock can be controlled by different controllers, and wherein only one
13	controller can hold a lock on a resource at a given time;
14	allowing the controller to execute the operation on the lockable resource in
15	the controller holds the lock on the lockable resource;
16	allowing the controller to acquire the lock if the controller does not hold

the lock on the lockable resource; and

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18	allowing the controller to execute the operation on the lockable resource if
19	the controller acquires the lock;
20	wherein the controller can hold locks on other policies and can thereby
21	create a hierarchical locking structure between policies.
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1	13. (Original) The computer-readable storage medium of claim 12,
2	wherein the first policy is configured to command resources in the distributed
3	computing system to perform actions so that the distributed computing system
4	operates in accordance with a rule that is enforced by the first policy, wherein the
5	rule governs behavior of resources within the distributed computing system.
1	14. (Original) The computer-readable storage medium of claim 12,
2	wherein the method further comprises throwing an exception if the controller does
3	not hold the lock on the lockable resource and if the controller does not acquire
4	the lock.
1	15. (Original) The computer-readable storage medium of claim 12,
2	wherein locks held by the controller expire after a pre-specified lease period,
3	unless the lease is renewed within the pre-specified lease period.
1	16. (Currently amended) An apparatus that provides concurrency control
2	within a policy-based management system that controls resources in a distributed
3	computing system, the apparatus comprising:
4	a receiving mechanism that receives a request to perform an operation on a
5	lockable resource from a controller in the distributed computing system, wherein
6	the lockable resource is a device, an appliance, a system, or a storage
7	mechanismcontroller is associated with a policy;

8	wherein the controller sends the request in order to enforce a first policy
9	for controlling resources in the distributed computing system;
10	a determining mechanism that determines whether the controller holds a
11	lock on the lockable resource, whrein the lock can be controlled by different
12	controllers, and wherein only one controller can hold a lock on a resource at a
13	given time;
14	an execution mechanism that is configured to,
15	allow the controller to acquire the lock if the controller
16	does not hold the lock on the lockable resource, and to
17	allow the controller to execute the operation on the lockable
18	resource if the controller holds the lock on the lockable resource;
19	wherein the controller can hold locks on other policies and can thereby
20	create a hierarchical locking structure between policies.
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1	17. (Original) The apparatus of claim 16, wherein the first policy is
2	configured to command resources in the distributed computing system to perform
3	actions so that the distributed computing system operates in accordance with a
4	rule that is enforced by the first policy, wherein the rule governs behavior of
5	resources within the distributed computing system.
1	18. (Original) The apparatus of claim 16, wherein the execution
2	mechanism is configured to throw an exception if the controller does not hold the
3	lock on the lockable resource and if the controller does not acquire the lock.
1	19. (Original) The apparatus of claim 16, wherein the lock on the lockable
2	resource expires after a pre-specified lease period, unless the lease is renewed

within the pre-specified lease period.

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1	20. (Original) The apparatus of claim 16, wherein the lockable resource
2	includes a resource within the distributed computing system.
1	21. (Original) The apparatus of claim 16, wherein the lockable resource
2	includes a second policy for controlling resources in the distributed computing
3	system.
1	22. (Original) The apparatus of claim 16, wherein the controller includes a
2	client in the distributed computing system.
1	23. (Original) The apparatus of claim 16, wherein the controller includes
2	the first policy for controlling resources in the distributed computing system.
	24 (2: 1) The second of claim 16 subgrain the controller includes a
1	24. (Original) The apparatus of claim 16, wherein the controller includes a
2	higher-level policy for controlling resources in the distributed computing system,
3	and wherein the lockable resource includes a lower-level policy for controlling
4	resources in the distributed computing system.
1	25. (Original) The apparatus of claim 16, wherein the execution
2	mechanism is configured to allow the controller to acquire the lock from a
3	resource that allocates locks to controllers.
1	26 (Canceled).
1	27. (Previously presented) The method of claim 1, wherein the lockable
2	resource presents one or more independent locks providing access to independent
3	sub-units of the resource

- 1 28. (Previously presented) The apparatus of claim 16, wherein the lockable
- 2 resource presents one or more independent locks providing access to independent
- 3 sub-units of the resource.